

CLAIMS

What is claimed is:

- 1 1. An acoustic assembly comprising
2 an electroacoustical transducer; and
3 an acoustic element, separate from said electroacoustical transducer, designed and
4 constructed to improve the acoustic performance of said electroacoustical transducer;
5 said acoustic assembly designed and constructed to be an element of a vehicle
6 pillar.
- 1 2. An acoustic assembly in accordance with claim 1, wherein said acoustic
2 element is a waveguide.
- 1 3. An acoustic assembly in accordance with claim 2, wherein said waveguide is a
2 two-ended waveguide.
- 1 4. An acoustic assembly in accordance with claim 2, wherein said waveguide is a
2 single-ended waveguide.
- 1 5. An acoustic assembly in accordance with claim 1, wherein said acoustic
2 assembly is an acoustic volume.
- 1 6. An acoustic assembly in accordance with claim 5 wherein said acoustic
2 volume is ported.
- 1 7. An acoustic assembly in accordance with claim 6 further comprising a second
2 electroacoustical transducer.
- 1 8. An acoustic assembly in accordance with claim 5 wherein said acoustic
2 volume is sealed.

1 9. A acoustic assembly in accordance with claim 8, further comprising a second
2 electroacoustical transducer.

1 10. An acoustic assembly in accordance with claim 1, wherein said vehicle pillar
2 is the A-pillar.

1 11 A structural automobile pillar containing an acoustic assembly, said acoustic
2 assembly including an acoustical driver and an acoustic element.

1 12. An automobile pillar in accordance with claim 11, wherein said pillar is an A-
2 pillar.

1 13. An automobile pillar in accordance with claim 12, wherein said acoustic
2 element is a waveguide.

1 14. An acoustic assembly in accordance with claim 13, wherein said waveguide
2 is a two-ended waveguide.

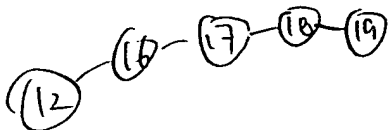
1 15. An acoustic assembly in accordance with claim 13, wherein said waveguide
2 is a single-ended waveguide.

1 16. An automobile pillar in accordance with claim 12, wherein said acoustic
2 element in an acoustic volume.

1 17. An acoustic assembly in accordance with claim 16 wherein said acoustic
2 volume is ported.

Sub 17 18. An acoustic assembly in accordance with claim 17 further comprising a
2 second transducer.

1 19. An acoustic assembly in accordance with claim 18 wherein said acoustic
2 volume is sealed.



1 *Sub*
2 *21* 20. An acoustic assembly in accordance with claim 20 further comprising a
2 second electroacoustical transducer. *10*

1 ~~21.~~ A trim element for covering a vehicle pillar, said trim element forming an
2 acoustic assembly.

1 22. A trim element in accordance with claim 21 wherein said acoustic assembly
2 is a waveguide.

1 23. A trim element in accordance with claim 21 wherein said acoustic assembly
2 is an acoustic volume.

1 24. A trim element in accordance with claim 21 wherein said vehicle pillar is an
2 A-pillar.

1 ~~25.~~ An automobile pillar comprising a plurality of sound sources.

1 26. An automobile pillar in accordance with claim 25 wherein said plurality of
2 sound sources comprises a plurality of electroacoustical transducers.

1 27. An automobile pillar in accordance with claim 25, wherein a first of said
2 sound sources comprises a first electroacoustical transducer and a second of said sound
3 sources comprises a port opening.

1 28. An automobile pillar in accordance with claim 27, wherein said a third of said
2 sound sources comprises a second electroacoustical transducer wherein said first and said
3 third sound sources are positioned equidistantly from said second sound source.

1 29. An automobile pillar in accordance with claim 25, wherein said plurality of
2 sound sources comprises an electroacoustical transducer and a waveguide opening.

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